Pergamon

Environment International, Vol. 25, No. 8, pp. 1001–1010, 1999
Copyright ©1999 Elsevier Science Ltd
Printed in the USA. All rights reserved
0160-4120/99/$–see front matter

ENVIRONMENT INTERNATIONAL

LIST OF CONTENTS, VOLUME 25, 1999

CONTENTS **Volume 25 Number 1 1999**

A. Alan Moghissi	1	Editorial: Eco-environmentalism and pesticides: Ethical consequences
M.R. Heal **M.A. O'Donoghue** **R.M. Agius** **I.J. Beverland**	3	Application of passive diffusion tubes to short-term indoor and personal exposure measurement of NO_2
C. Hazell **M. Burr** **P. Collins** **G. Karani**	9	Investigation of the possible link between exposure to air pollution and changes in blood coagulation parameters
Rikke Bramming Jørgensen **Olav Bjørseth**	17	Sorption behaviour of volatile organic compounds on material surfaces — the influence of combinations of compounds and materials compared sorption of single compounds on single materials
A. Rabl **J.V. Spadaro**	29	Damages and costs of air pollution: An analysis of uncertainties
H.S. Virk	47	Indoor radon levels near the radioactive sites of Himachal Pradesh, India
H. Nsanze **Z. Babarinde** **H. Al Kohaly**	53	Microbiological quality of bottled drinking water in the UAE and the effect of storage at different temperatures
Dragana Todorovic **Dragana Popovic** **Gordana Djuric**	59	Concentration measurements of ^{7}Be and ^{137}Cs in ground level air in the Belgrade city area
G.D. Roy	67	Inclusion of off-shore islands in a transformed coordinates shallow water model along the coast of Bangladesh
M. Sohrabpour **H. Mirzaee** **S. Rostami** **M. Athari**	75	Elemental concentration of the suspended particulate matter in the air of Tehran
E. Tipping **C. Woof** **E. Rigg** **A.F. Harrison** **P. Ineson** **K. Taylor** **D. Benham** **J. Poskitt** **A.P. Rowland** **R. Bol** **D.D. Harkness**	83	Climatic influences on the leaching of dissolved organic matter from upland UK moorland soils, investigated by a field manipulation experiment

Wei Chu **William Hsu**	97	Pollution source identification and waste loading reduction at Chinese fast food restaurants
G.D. Roy	109	Sensitivity of water level associated with tropical storms along the Meghna estuary in Bangladesh
Talat Saeed **Maha Al-Mutairi**	117	Chemical composition of the water-soluble fraction of the leaded gasolines in seawater
	131	Books
	137	New Patents

ENVIRONMENT INTERNATIONAL

CONTENTS **Volume 25 Numbers 2/3 1999**

SPECIAL ISSUE: NOM-TYPING

Per Kristian Egeberg **Egil T. Gjessing** **Harsha Ratnaweera** **A. Alan Moghissi**	143	Editorial: Natural organic matter
E.T. Gjessing **P.K. Egeberg** **J. Håkedal**	145	Natural organic matter in drinking water — the "NOM-typing project", background and basic characteristics of original water samples and NOM isolates
Gudrun Abbt-Braun **Fritz H. Frimmel**	161	Basic characterization of Norwegian NOM samples — similarities and differences
Alfred A. Christy **Auguste Bruchet** **D. Rybacki**	181	Characterization of natural organic matter by pyrolysis/GC-MS
F.H. Frimmel **G. Abbt-Braun**	191	Basic characterization of reference NOM from Central Europe—similarities and differences
Uwe Münster	209	Amino-acid profiling in natural organic matter isolated by reverse osmosis from eight different boreal freshwaters
P.K. Egeberg **M. Eikenes** **E.T. Gjessing**	225	Organic nitrogen distribution in NOM size classes
James J. Alberts **Monika Takács**	237	Characterization of natural organic matter from eight Norwegian surface waters: the effect of ash on molecular size distributions and CHN content
J.R. Lead **E. Balnois** **M. Hosse** **R. Menghetti** **K.J. Wilkinson**	245	Characterization of Norwegian natural organic matter: size, diffusion coefficients, and electrophoretic mobilities

Philippe Schmitt-Kopplin **Dieter Freitag** **Antonius Kettrup** **Ursula Schoen** **Per Kr. Egeberg**	259	Capillary zone electrophoretic studies on Norwegian surface water natural organic matter
D.B. Wagoner **R.F. Christman**	275	Molar mass and size of Norwegian aquatic NOM by light scattering
P. Blaser **A. Heim** **J. Luster**	285	Total luminescence spectroscopy of NOM-typing samples and their aluminium complexes
D. Scott Smith **James R. Kramer**	295	Fluorescence analysis for multi-site aluminum binding to natural organic matter
D. Scott Smith **James R. Kramer**	307	Multi-site proton interactions with natural organic matter
Monika Takács **James J. Alberts** **Per Kr. Egeberg**	315	Characterization of natural organic matter from eight Norwegian surface water: proton and copper binding
Gunnhild Riise	325	Transport of NOM and trace metals through macropores in the Lake Skjervatjern catchment
Joachim Fettig	335	Characterisation of NOM by adsorption parameters and effective diffusivities
Harsha Ratnaweera **Nicole Hiller** **Ulrike Bunse**	347	Comparison of the coagulation behavior of different Norwegian aquatic NOM sources
Janusz Pempkowiak **Joanna Kożuch** **Helena Grzegowska** **Egil T. Gjessing**	357	Biological vs. chemical properties of NOM isolated from selected Norwegian lakes
Lars J. Hem **Harry Efraimsen**	367	Isolation of natural organic matter — the influence on the assimilable organic carbon
	373	Books
	375	New Patents

ENVIRONMENT INTERNATIONAL

CONTENTS **Volume 25 Number 4 1999**

A. Alan Moghissi	391	Editorial: Application of SI
Paul F. Hudak	393	Chloride and nitrate distributions in the Hickory Aquifer, Central Texas, USA

Anamika Tripathi **D.S. Tripathi** **Vishnu Prakash**	403	Phytomonitoring and No_x pollution around silver refineries
M.M.M. Beshwari **A. Bener** **A.M. Almehdi** **A. Ameen** **A. Ibrahim** **M.A.H. Pasha** **H.Z. Ouda**	411	Aminoacid profiles in farm workers
P.P.K. Wong **L.M. Chu** **C.K. Wong**	417	Study of toxicity and bioaccumulation of copper in the silver sea bream *Sparus sarba*
Baoguo Ma **Meng Qi** **Jun Peng** **Zongjin Li**	423	The compositions, surface texture, absorption, and binding properties of fly ash in China
Chung-Te Lee **Wen-Chuan Hsu**	433	Effects of local pollution and environmental humidity on aerosol-size spectra and light-scattering coefficients in southern Taiwan
S.C. Lee **L.Y. Chan** **M.Y. Chiu**	443	Indoor and outdoor air quality investigation at 14 public places in Hong Kong
Chung-Min Liao	451	Dynamic feedback optimization of bioresource management in a polluted ecosystem
C.W. Chu **C.S. Poon**	465	The feasibility of planting on stabilized sludge-amended soil
Welderufael G. Kiflom **Shem O. Wandiga** **Peter K. Ng'ang'a** **Geoffrey N. Kamau**	479	Variation of plant p,p'-DDT uptake with age and soil type and dependence dissipation on temperature
Shun-Cheng Lee **Maureen Chang** **Ka-Yee Chan**	489	Indoor and outdoor air quality investigation at six residential buildings in Hong Kong
Sheng H. Lin **Cheng L. Lai**	497	Catalytic oxidation of dye wastewater by metal oxide catalyst and granular activated carbon
H. Al-Madfa **M.A.R Abdel-Moati** **A. Al-Naama**	505	Beach tar contamination on the Qatari coastline of the Gulf
A. Judson Wells	515	Deaths in the United States from passive smoking; ten-year update
	521	Books
	525	New Patents

ENVIRONMENT INTERNATIONAL

CONTENTS

Volume 25 Number 5 1999

A. Alan Moghissi	539	Editorial: Psychochemistry
Martin Kraenzmer	541	Modeling and continuous monitoring of indoor air pollutants for identification of sources and sinks
Talat Saeed **Hosney Khordagui** **Huda Al-Hashah**	553	Contribution of power and desalination plants to the levels of volatile liquid hydrocarbons in the nearby coastal areas of Kuwait
Takashi Amagai **Yukari Takahashi** **Hidetsuru Matsushita** **Daisy Morknoy** **Phaka Sukasem** **Monthip Tabucanon**	563	A survey on polycyclic aromatic hydrocarbon concentrations in soil in Chiang-Mai, Thailand
Mélida Gutiérrez **Patricia Borrego**	573	Water quality assessment of the Rio Conchos, Chihuahua, Mexico
Hsi-Hsien Yang **Chow-Feng Chiang** **Wen-Jhy Lee** **Kevin-P. Hwang** **Edward Min-Yang Wu**	585	Size distribution and dry deposition of road dust PAHs
G.F. Vazquez **G. Enciso** **J.W. Morales** **Virender K. Sharma** **S.L. Nischt** **G.L. Domingo**	599	Metal ions in water and sediments of the Pom-Atasta Lagoon, Mexico
Jimmy C. Yu **Lai-nor Cheng**	605	Speciation and distribution of trihalomethanes in the drinking water of Hong Kong
A. Carbonell-Barrachina **A. Jugsujinda** **R.D. DeLaune** **W.H. Patrick, Jr.** **F. Burló** **S. Sirisukhodom** **P. Anurakpongsatorn**	613	The influence of redox chemistry and pH on chemically active forms of arsenic in sewage sludge-amended soil
A. Villegas-Navarro **M.C. Romero González** **E. Rosas López** **R. Dominguez Aguilar** **W. Sachetin Marçal**	619	Evaluation of *Daphnia magna* as an indicator of toxicity and treatment efficacy of textile wastewaters

G.C. Fang Y.S. Wu C.N. Chang K.F. Chang D.G. Yang	625	Modeling dry deposition of total particle mass in trafficked and rural sites of central Taiwan
Terence J. Centner Lewell F. Gunter	635	Financing the disposal of unwanted agricultural pesticides
F. Páez-Osuna H. Bójorquez-Leyva J. Ruelas-Inzunza	647	Regional variations of heavy metal concentrations in tissues of barnacles from the subtropical Pacific Coast of Mexico
Paris Hongley Chen	655	Removing aquatic organic substances by anion-exchange resin and activated carbon
A.G. Vlyssides P.K. Karlis A.A. Zorpas	663	Electrochemical oxidation of noncyanide strippers wastes
Kuo-Hua Wang Yung-Hsu Hsieh Ren-Chang Ko Chen-Yu Chang	671	Photocatalytic degradation of wastewater from manufactured fiber by titanium dioxide suspensions in aqueous solution
	677	Books
	679	New Patents

ENVIRONMENT INTERNATIONAL

CONTENTS Volume 25 Number 6/7 1999

SPECIAL ISSUE: MODELLING AND SIMULATION

A. David McDonald Paolo F. Ricci Tom Beer A. Alan Moghissi	691	Editorial: Application of modelling and simulation in risk analysis
R.M. Argent R.B. Grayson S.A. Ewing	693	Integrated models for environmental management: issues of process and design
Jennifer A. Bellamy Duncan Lowes	701	Modelling change in state of complex ecological systems in space and time: an application to sustainable grazing management
R.M. Cannon M.G. Garner	713	Assessing the risk of wind-borne spread of foot-and-mouth disease in Australia
Romy Greiner	725	An integrated modelling system for investigating the benefits of catchment management

Reg. A. Watson **Neil R. Sumner**	735	Uncertainty and risk associated with optimised fishing patterns in a tropical penaeid fishery
Paolo F. Ricci **Louis A. Cox, Jr.**	745	Empirical analysis of the variability of the maximum likelihood estimates of benzene cancer risks
R.L. Sielken, Jr. **C. Valdez-Flores**	755	Probabilistic risk assessment's use of trees and distributions to reflect uncertainty and variability and to overcome the limitations of default assumptions
Nicholas L.G. Somes **Warwick A. Bishop** **Tony H.F. Wong**	773	Numerical simulation of wetland hydrodynamics
K.P. Singh **S. Bae** **A.A. Bartolucci** **R.I. Chowdhury** **M.A. Islam** **Warsono**	781	Estimation of transition rates in a multi-state proportional hazards model
Thomas M. Grieb **Robert J.M. Hudson** **Nong Shang** **Robert C. Spear** **Steven A. Gherini** **Robert A. Goldstein**	787	Examination of model uncertainty and parameter interaction in a global carbon cycling model (GLOCO)
Louis Anthony Cox, Jr.	805	A biomathematical model of hematotoxicity
L.G. Barioni **C.K.G. Dake** **W.J. Parker**	819	Optimizing rotational grazing in sheep management systems
P.F. Crapper **S.G. Beavis** **Li Zhang**	827	The relationship between climate and streamflow in the Namoi Basin
Louis Anthony Cox, Jr.	841	Internal dose, uncertainty analysis, and complexity of risk models
L. Zhang **S.G. Beavis** **S.D. Gray**	853	Development of a spatial database for large-scale catchment management: geology, soils, and landuse in the Namoi Basin, Australia
J.B. Robinson **D.M. Freebairn** **J.P. Dimes** **R.C. Dalal** **G.A. Thomas** **E.J. Weston**	861	Modelling wheat production from low-rainfall farming systems in Northern Australia
Hung-po Chao **Stephen Peck**	871	A decision model for environmental R&D

Tom Beer
Paolo. F. Ricci 887 A quantitative risk assessment method based on population and exposure distributions using Australian air quality data

D.G. Mayer
J.A. Belward
K. Burrage 899 Performance of genetic algorithms and simulated annealing in the economic optimization of a herd dynamics model

David H. White 907 Opportunities and roles for models to aid the management of agricultural and other natural resources within the variable climate of Australia

Richard McGarvey
P.S. Gaertner 913 The South Australian lobster fishery management model

Jane Gooday 927 River headwater flows – modelling the spatial and temporal correlations within a larger framework

935 New Patents

ENVIRONMENT INTERNATIONAL

CONTENTS **Volume 25 Number 8 1999**

A. Alan Moghissi 951 Editorial: Science, technology, health, and monitoring serving environmental policy

B. Dietrick McGinnis
V. Dean Adams
E. Joe Middlebrooks 953 Evaluation of methylene blue and riboflavin for the photosensitized degradation of ethylene glycol

X.Z. Li
Q.L. Zhao 961 Inhibition of microbial activity of activated sludge by ammonia in leachate

L. Giusti
A.C. Williamson
A. Mistry 969 Biologically available trace metals in *Mytilus edulis* from the coast of Northeast England

Saleh Al-Muzaini
Mohamed F. Hamoda 983 Selection of an effective sludge dewatering system for a small wastewater treatment plant

M. Šolić
N. Krstulović
S. Jozić
D. Curać 991 The rate of concentration of faecal coliforms in shellfish under different environmental conditions

1001 List of Contents and Author Index for Volume 25, 1999